Dr. Worner F. Lass 411 East 69 Street New York 21, N.Y.

Dear Former:

Thanks very much for estaling out the Walman strain and the polyauxo-trophs. I've done a few crossing tests with them, with no very conclusive results.

First of all, the Wakasan strain is definitely I+ (as shown by transfer of the F+ agent to X-12 testers). I think that there can be little further doubt that the XI and XI series are derived from Wake.

The Wake. strain itself gave a negative result when testeddukth W-1177 etc. on streptomycin minimal agar: It would have been passed over in our routine screening program.

Similarly, in accord with earlier records and remarks, I did not find evidence of crossing either between the polyamotrophs you provided, or between them and any K-12 testers (F+ and F-). However, I have also gone back to a few of the cultures labelled Klt, for example Klt h2-pl and Klt-Trl-h3. These gave very speradic results with K-12 testers, and altogether only a very few prototrophs were obtained, so that I cannot place too much caphasis on any negative results. The "storile" Kl-QT h stock has given an prototrophs with K-12 testers, and a very few (but unloabtelly algaificant) with one or two non-K-12 testers. These combinations are far too storile to be of any use as such for genetic studies. All crosses were done on minimal agar. In a few cases, the parents were grown together.

There must be strething that I'm overlooking, and that would make the situation more hopeful. I gathered that you have obtained substantial yields in crosses of Klt-- stocks X 58-161 and W-677. Can you give me the details of your experiments that might help me to do the same? The pant cultures that I now have are: Klt: h2thr; h2p2; h2cyst; h2m; hltr; trlb3/p h4; ptr; and h2p1. Kl: h2; QTp; QTh; k2p2; trl; h2arg; I haven't tried all of these by any means, and would appreciate any lead to help get them to cross with Kl2 testers.

Are you having any luck with pant mutants in K-12?

Sincerely.

Joshus Lederberg